

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: April 24, 2002, 09:25:23; Search time 240.08 seconds
(without alignments)
4895.125 Million cell updates/sec

Title: US-09-525-998A-1
Perfect score: 1468
Sequence: 1 aagagctctccacagctgccc cgcacagctctccacagctg 1368

Scoring table: IDENTITY_NUC April 24, 2002, 09:25:23; Search time 240.08 seconds
(without alignments)
4895.125 Million cell updates/sec

Searches: 40021 seqs, 40000000 residues

Total number of hits satisfying chosen parameters: 1861242

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database: N_Genes31101.*

Rank	Accession	Length	Score	Match	Length	ID	Description
1	/SID22/gcadata/geneseq/geneseq/NA1980.DAT.*	1368	1468	14	AAQ49932	14	Lambda-derived TNF
2	/SID22/gcadata/geneseq/geneseq/NA1981.DAT.*	1368	1468	21	AAQ49932	21	Human TNFRI coding
3	/SID22/gcadata/geneseq/geneseq/NA1982.DAT.*	1368	1468	12	AAQ10883	12	30KD TNF inhibitor
4	/SID22/gcadata/geneseq/geneseq/NA1983.DAT.*	1368	1468	22	AAQ10883	22	Human 30 kDa TNF I
5	/SID22/gcadata/geneseq/geneseq/NA1984.DAT.*	1368	1468	20	AAQ10883	20	Human Tumour necro
6	/SID22/gcadata/geneseq/geneseq/NA1985.DAT.*	1368	1468	21	AAQ48475	21	Human tumour necro
7	/SID22/gcadata/geneseq/geneseq/NA1986.DAT.*	1368	1468	21	AAQ10955	21	Encodes human 55KD
8	/SID22/gcadata/geneseq/geneseq/NA1987.DAT.*	1368	1468	21	AAQ10955	21	p55 TNF-R gene. H
9	/SID22/gcadata/geneseq/geneseq/NA1988.DAT.*	1368	1468	16	AAQ90513	16	TNF-alpha binding
10	/SID22/gcadata/geneseq/geneseq/NA1989.DAT.*	1368	1468	13	AAQ20973	13	Encodes TNF-alpha
11	/SID22/gcadata/geneseq/geneseq/NA1990.DAT.*	1368	1468	13	AAQ20973	13	Type I TNF recepto
12	/SID22/gcadata/geneseq/geneseq/NA1991.DAT.*	1368	1468	13	AAQ20973	13	
13	/SID22/gcadata/geneseq/geneseq/NA1992.DAT.*	1368	1468	13	AAQ20973	13	
14	/SID22/gcadata/geneseq/geneseq/NA1993.DAT.*	1368	1468	13	AAQ20973	13	
15	/SID22/gcadata/geneseq/geneseq/NA1994.DAT.*	1368	1468	13	AAQ20973	13	
16	/SID22/gcadata/geneseq/geneseq/NA1995.DAT.*	1368	1468	13	AAQ20973	13	
17	/SID22/gcadata/geneseq/geneseq/NA1996.DAT.*	1368	1468	13	AAQ20973	13	
18	/SID22/gcadata/geneseq/geneseq/NA1997.DAT.*	1368	1468	13	AAQ20973	13	
19	/SID22/gcadata/geneseq/geneseq/NA1998.DAT.*	1368	1468	13	AAQ20973	13	
20	/SID22/gcadata/geneseq/geneseq/NA1999.DAT.*	1368	1468	13	AAQ20973	13	
21	/SID22/gcadata/geneseq/geneseq/NA2000.DAT.*	1368	1468	13	AAQ20973	13	
22	/SID22/gcadata/geneseq/geneseq/NA2001.DAT.*	1368	1468	13	AAQ20973	13	

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description
1	1366.4	99.9	1368	14	AAQ49932
2	1366.4	99.9	1468	21	AAQ49932
3	1366.4	99.9	2088	12	AAQ10883
4	1366.4	99.9	2088	22	AAQ10883
5	1366.4	99.9	2111	20	AAQ10883
6	1366.4	99.9	2161	21	AAQ48475
7	1364.8	99.8	2111	12	AAQ10955
8	1364.8	99.8	2175	16	AAQ90513
9	1363.2	99.6	2062	13	AAQ20973
10	1363.2	99.6	2062	13	AAQ20973
11	1363.2	99.6	2176	12	AAQ10955

12	1361.6	99.5	2141	11	AAQ49932
13	1360	99.4	2170	14	AAQ50870
14	1320.4	81.9	1324	11	AAQ50870
15	732.2	53.5	2173	11	AAQ50870
16	632.8	46.3	6926	18	AAQ4443
17	632.4	46.2	6989	17	AAQ15931
18	596.8	43.6	608	13	AAQ24441
19	596.8	43.6	608	13	AAQ24441
20	534	37.6	1301	18	AAQ49932
21	534	37.6	1301	18	AAQ49932
22	501.4	36.7	504	13	AAQ24443
23	483	35.3	483	19	AAQ15448
24	483	35.3	483	19	AAQ15448
25	483	35.3	483	20	AAQ15448
26	483	35.3	483	22	AAQ15448
27	440	33.3	2254	21	AAQ5104
28	424.4	31.0	1049	18	AAQ49932
29	424.4	31.0	1049	18	AAQ49932
30	418	30.6	1674	21	AAQ50196
31	376.2	27.5	477	13	AAQ24444
32	357.2	26.1	471	13	AAQ24444
33	329.6	24.1	5870	21	AAQ15044
34	312.4	22.8	339	19	AAQ19804
35	310.8	22.7	462	13	AAQ24443
36	309.2	22.5	333	19	AAQ19805
37	304.4	22.3	332	19	AAQ19803
38	294.6	21.5	315	19	AAQ19806
39	288	21.1	1497	21	AAQ50144
40	273.8	20.0	294	19	AAQ19808
41	264.6	19.3	285	19	AAQ19807
42	253.8	18.5	1464	21	AAQ50196
43	163.6	12.0	1258	21	AAQ50196
44	162.8	11.9	1027	12	AAQ19879
45	162.8	11.9	1027	12	AAQ19879

ALIGNMENTS

RESULT	1
AAQ49932	
ID	AAQ49932
XX	AAQ49932
AC	AAQ49932
PT	29-Apr-1994 (first entry)
XX	29-Apr-1994 (first entry)
DE	Lambda-derived TNF R cDNA.
XX	Lambda-derived TNF R cDNA.
XX	Human: tumour necrosis factor receptor; TNF-R; interleukin-1 receptor;
KW	11; 12; fusion protein; fibrotic; TNF; TNF; TNF; TNF; TNF; TNF; TNF; TNF;
KW	thrombotic arthritis; diabetes; multiple sclerosis; septic shock;
KW	pulmonary fibrosis; silicosis; allograft; xenograft; rejection;
KW	graft-versus-host disease; sepsis; inflammation; ulcer;
KW	autoimmune dysfunction; SS.
XX	Homo sapiens.
OS	Lambda-gt10-7-ctfbbp.
XX	Lambda-gt10-7-ctfbbp.
EH	Key
FT	CDS
FT	Location/Qualifiers
FT	/*tag- a
FT	/product= hTNF-R
FT	1..120
FT	/*tag- b
FT	121..1363
FT	/*tag- c
XX	W09319777-A.
XX	14-OCT-1993.
XX	26 MAR-1993.
XX	26 MAR-1993.

XX 30 MAR-1992: 9255 9860712.
 XX (IMMUNEX CORP.
 XX Smith CA;
 XX WPI: 1993-336592/42.
 DR P-PSDB; AAR42059.
 XX
 XX New fusion protein tumour necrosis factor and human interleukin-1
 PI receptor useful in therapy, diagnosis and assays of e.g.
 PI rheumatoid arthritis, diabetes, cerebral malaria, sepsis, etc.
 XX
 XX Disclosure: Page 57-59; 85pp; English.
 XX
 XX The sequences given in AA049931-32 encode human tumour necrosis factor
 CC receptor (TNF-R) and the sequences in AA049933-34 encode human
 CC interleukin 1 receptor (IL-1R). These sequences were used in the
 CC production of a fusion protein which conformed to one of the
 CC formulae:
 CC TNF-R-linker-TNF-R-linker-IL-1R
 CC IL-1R-linker-TNF-R-linker-TNF-R or
 CC TNF-R-linker-TNF-R
 CC The linker may comprise 5-100 amino acids selected from Gly, Asp,
 CC Ser, Thr and Ala. These linkers separate the individual moieties
 CC by such a distance that each component of the fusion protein is
 CC capable of folding into the secondary or tertiary structure required
 CC for its biological activity. These fusion proteins may be used in
 CC therapy, diagnosis and assays for conditions mediated by TNF or IL-1,
 CC particularly in conditions in which both TNF and IL-1 play a causative
 CC role. They may be used to treat cachexia, rheumatoid arthritis,
 CC diabetes, multiple sclerosis, pulmonary fibrosis and silicosis,
 CC cerebral malaria, alcoholism and acquired rejection in graft verses
 CC host disease, sepsis, septic shock, inflammation, allergies and
 CC autoimmune dysfunctions.
 XX
 XX Sequence 1368 BP: 292 A: 424 C: 376 G: 276 T: 0 other.

Query Match 99.9% Score 1366.4; DB 14; Length 1368;
 Host local similarity 99.9%; P-Seq No. 0;
 Matches 1367; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ataaqctctccacaggaatgactgaatgagctgagcactgaatgagcattatgaatg 60
 DB 1 ataaqctctccacaggaatgactgaatgagctgagcactgaatgagcattatgaatg 60
 QY 61 ggaatataccctcaggaatgattgaatgagctgagcactgaatgagcattatgaatg 120
 DB 61 ggaatataccctcaggaatgattgaatgagctgagcactgaatgagcattatgaatg 120
 QY 121 gataatgagctgagcactgaatgagcattatgaatgagcattatgaatgagcattatgaatg 180
 DB 121 gataatgagctgagcactgaatgagcattatgaatgagcattatgaatgagcattatgaatg 180
 QY 181 aatgagcactgaatgagcattatgaatgagcattatgaatgagcattatgaatgagcattatgaatg 240
 DB 181 aatgagcactgaatgagcattatgaatgagcattatgaatgagcattatgaatgagcattatgaatg 240
 QY 241 tgaaggaatgagcattatgaatgagcattatgaatgagcattatgaatgagcattatgaatg 300
 DB 241 tgaaggaatgagcattatgaatgagcattatgaatgagcattatgaatgagcattatgaatg 300
 QY 301 agctgctcacaatgagcactgaatgagcattatgaatgagcattatgaatgagcattatgaatg 360
 DB 301 agctgctcacaatgagcactgaatgagcattatgaatgagcattatgaatgagcattatgaatg 360
 QY 361 cgaagcactgaatgagcattatgaatgagcattatgaatgagcattatgaatgagcattatgaatg 420
 DB 361 cgaagcactgaatgagcattatgaatgagcattatgaatgagcattatgaatgagcattatgaatg 420
 QY 421 ttaaatgcttgaatgagcattatgaatgagcattatgaatgagcattatgaatgagcattatgaatg 480

RESULT 2

AAA95105

ID AAA95105 Standard; DNA; 1368 BP.

XX

AC AAA95105;

XX

DT 12-JAN-2001 (first entry)

XX

DE Human TNFR1 coding sequence.

XX TNFRI: tumour necrosis factor receptor; polymorphism: human;
 KW tumour; cancer; apoptosis; bacterial infection; ds.
 XX Homo sapiens.
 OS

HE	Key	Location/Qualifiers
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1.1361 CDS

$$F_{\star}^{\dagger} \dot{\alpha}(\gamma) =$$
$$\frac{\text{ft}}{\text{product}}$$

14.34 exon

LT-129*

ET
/number/

```

Db 721 tccaggtctactctccattgtttgttgaaatcgacacctgaaagaaggagggttgaa 780
Qy 781 ggaactactactaaagccctgagcccaaaacccaaagcttcaatcccaatcccaatcc 840
Db 781 ggaactactactaaagccctgagcccaaaacccaaagcttcaatcccaatcccaatcc 840
Qy 841 cccacccctgagcttccagctccgctgcccagcttccacctccacccctccacccatacc 900
Db 841 cccacccctgagcttccagctccgctgcccagcttccacctccacccctccacccatacc 900
Qy 901 cccagcttccagcttccaccccttccagcttccaccccttccagcttccaccccttccag 960
Db 901 cccagcttccagcttccaccccttccagcttccaccccttccagcttccaccccttccag 960
Qy 961 gctgacccctacttccagacacccctccagctccacccctccacccctccaccccttccag 1020
Db 961 gctgacccctacttccagacacccctccagctccacccctccacccctccaccccttccag 1020
Qy 1021 tggagagacagcagcccaagcagcagcagcagcagcagcagcagcagcagcagcagcag 1080
Db 1021 tggagagacagcagcccaagcagcagcagcagcagcagcagcagcagcagcagcagcag 1080
Qy 1081 gacatgagagagagagagagagagagagagagagagagagagagagagagagagagag 1140
Db 1081 gacatgagagagagagagagagagagagagagagagagagagagagagagagagagag 1140
Qy 1141 agcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 1200
Db 1141 agcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 1200
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Db 1201 tccagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 1260
Qy 1261 ctgagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 1320
Db 1261 ctgagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 1320
Qy 1321 ctgagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 1380
Db 1321 ctgagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 1380

```

RESULT 3

AAQ10883 standard: cDNA, 2088 bp
ID AAQ10883

AC AAQ10883;
XX

DI 13-MAY-1991 (first entry)
XX

XX 30kD TNF inhibitor precursor gene in lambda-ql10-7ctnfbp.
XX

XX Tumour necrosis factor; inhibitor; ss.
KW

XX Homo sapiens.
OS

XX Key Location/Qualifiers
FH 171..1536
FT /*tag- a
FT

PN AU9058976-A.
XX

XX 24-JAN-1991.
PD

XX 16-JUL-1990; 90AU-0058976.
PF

XX 07-FEB-1990; 90NS-0479661.
PR

XX 18-JUL-1989; 89NS-0381080.
PR

XX 11-DEC-1989; 89NS-0450329.
PR

XX (SYN-) SYNPROGN INC.
PA

XX

DR WPI: 1991-073847/11.
DR P-PSDB; AAK10986.
XX Tumour necrosis factor inhibitor - for suppression of TNF-alpha
PT and -beta, useful as therapeutic agent.
XX Disclousure; Fig 21; 142pp; English.
XX the sequence encodes the entire 40 kD TNF inhibitor. The clone from
CC which the sequence was obtd. was isolated from a cDNA library
CC prepd. from RNA from U937 cells treated with PMA/PMA. The whole
CC gene can be inserted into expression vectors for prepn. of TNF
CC inhibitor for use in the treatment of inflammatory and degenerative
CC diseases.
CC See also AAQ10878, AAQ10884 and AAQ10907.
XX Sequence 2088 bp; 439 A; 526 C; 578 G; 445 T; 0 other;
SQ

Query Match 99.9%; Score 1366.4; DB 12; length 2088;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1367; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Qy 1 atgggctctccacgctgctgacctgctgctgacacgtgctgctgctgctgctgctgctg 60
Db 169 atgggctctccacgctgctgacctgctgctgacacgtgctgctgctgctgctgctgctg 228
Qy 61 qaaatataccctccaggggttatatgaacatgaacatgaacatgaacatgaacatgaacatga 120
Db 229 ggaatataccctccaggggttatatgaacatgaacatgaacatgaacatgaacatgaacatga 288
Qy 121 gatagtgctgctccacaggaataatataccacccctcaaaataatctgattgctgctgac 180
Db 289 gatagtgctgctccacaggaataatataccacccctcaaaataatctgattgctgctgac 348
Qy 181 aatggcacaaggaacacacacacacacacacacacacacacacacacacacacacacacac 240
Db 349 aatggcacaaggaacacacacacacacacacacacacacacacacacacacacacacacac 408
Qy 241 tcagaggaagatgagagagagagagagagagagagagagagagagagagagagagagagag 300
Db 409 tcagaggaagatgagagagagagagagagagagagagagagagagagagagagagagagag 468
Qy 301 agctgctccaatgcccgaaggaatgggtcaggtgagatctcttctgacacatgagac 360
Db 469 agctgctccaatgcccgaaggaatgggtcaggtgagatctcttctgacacatgagac 528
Qy 361 cgggacacacgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctg 420
Db 529 cgggacacacgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctg 588
Qy 421 ttcagatgcttcaatgcaacgtctgcttcaatgcaacgtctgcttcaatgcaacgtctgct 480
Db 589 ttcagatgcttcaatgcaacgtctgcttcaatgcaacgtctgcttcaatgcaacgtctgct 648
Qy 481 aaacagaacacacgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgct 540
Db 649 aaacagaacacacgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgct 708
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Db 709 tctgtgtgactgtaagaaagcctgagtgacagaaagctgctgctgctgctgctgctgctgct 768
Qy 601 aatglttaaggcactgaggaactcaggaacacacacacacacacacacacacacacacacac 660
Db 769 aatglttaaggcactgaggaactcaggaacacacacacacacacacacacacacacacacac 828
Qy 661 ggtcttctgcttcttcttcttcttcttcttcttcttcttcttcttcttcttcttcttctt 720
Db 829 ggtcttctgcttcttcttcttcttcttcttcttcttcttcttcttcttcttcttcttctt 888
Qy 721 tccaggtctactctctcttcttcttcttcttcttcttcttcttcttcttcttcttcttctt 780

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